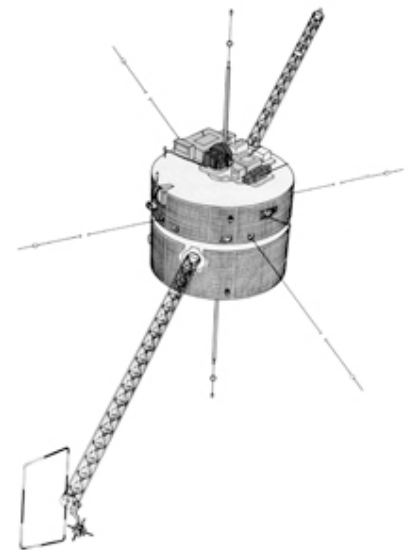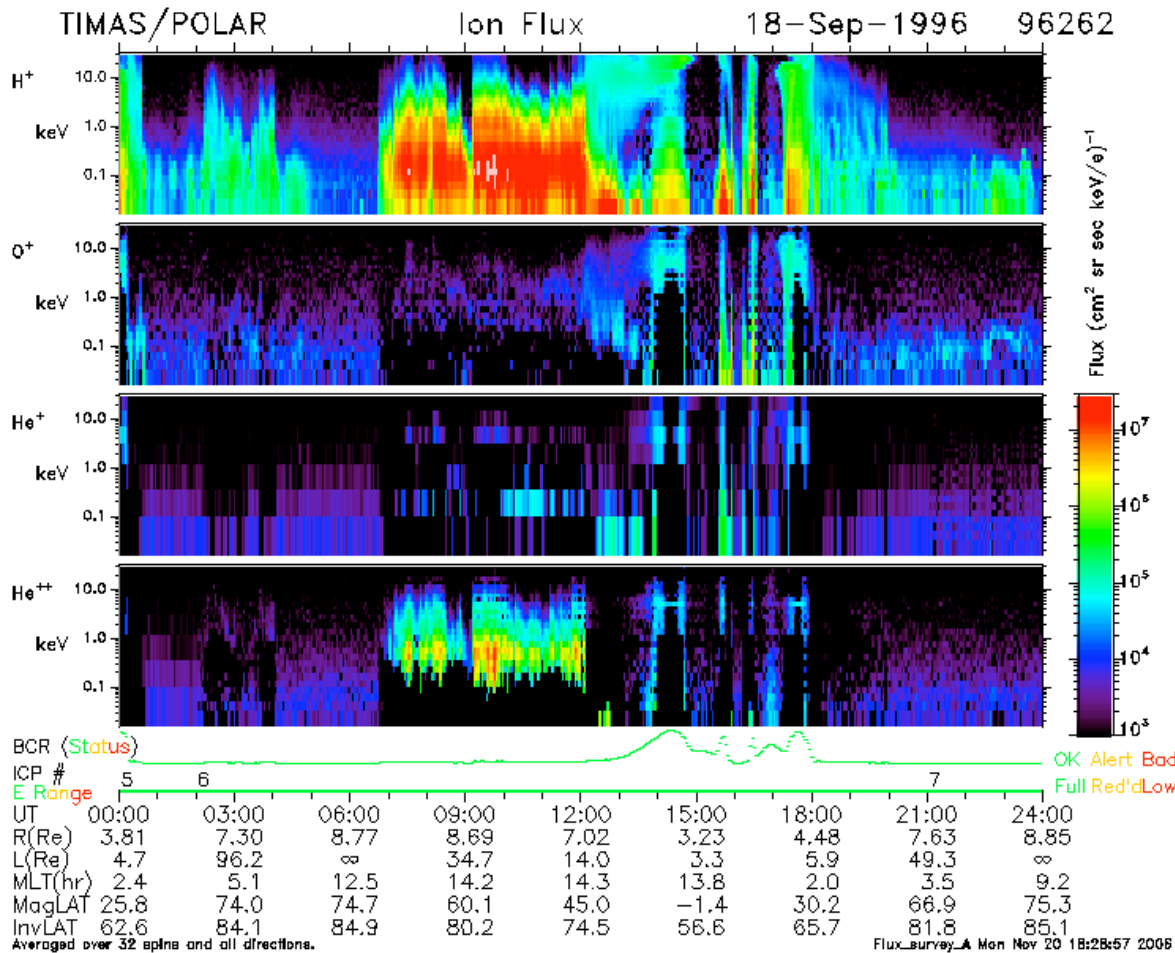# TIMAS
Archiving Plan

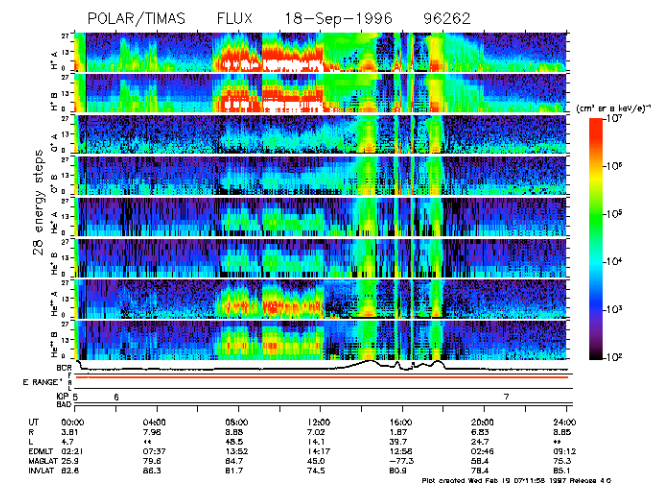## W.K. (Bill) Peterson

March 23, 2007

TIMAS Archiving Plan

- 24h summary spectrograms to be made more user friendly.
  - This will be a science data product rather than the existing engineering status product
- Apogee and perigee centered data plots
- On line, unattended generation of high resolution spectrograms and ASCII files in a variety of coordinate systems.
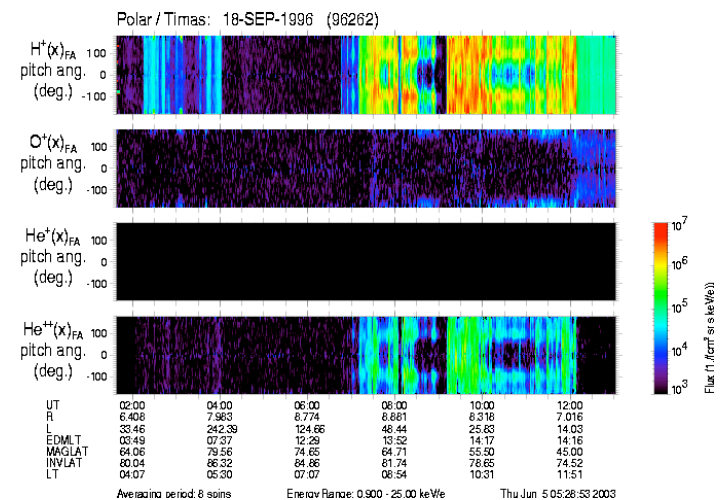- New web data interface to data
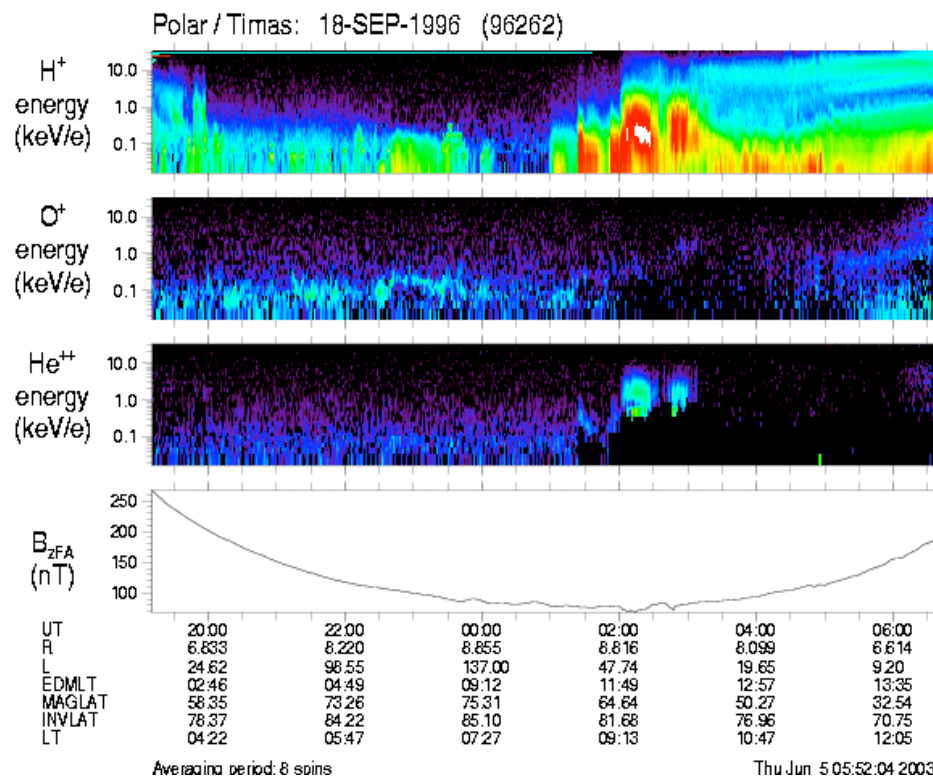
Summary Spectrograms

Omni directional number fluxes calculated with "best" algorithm.

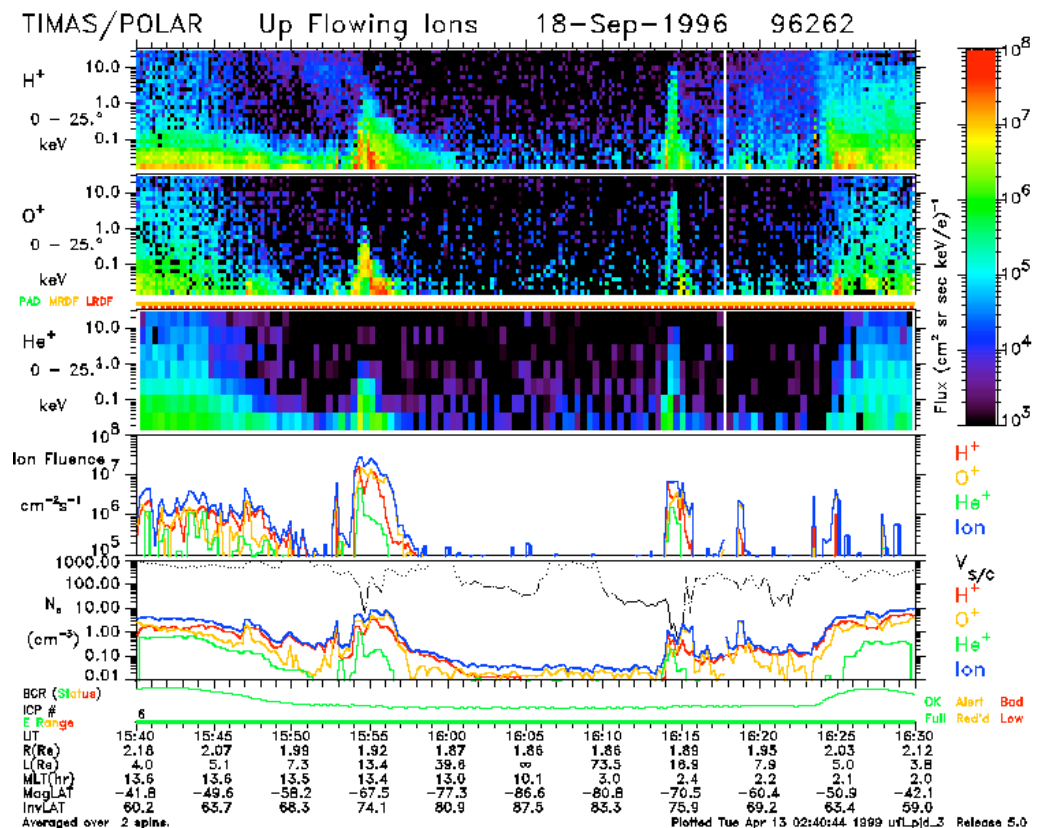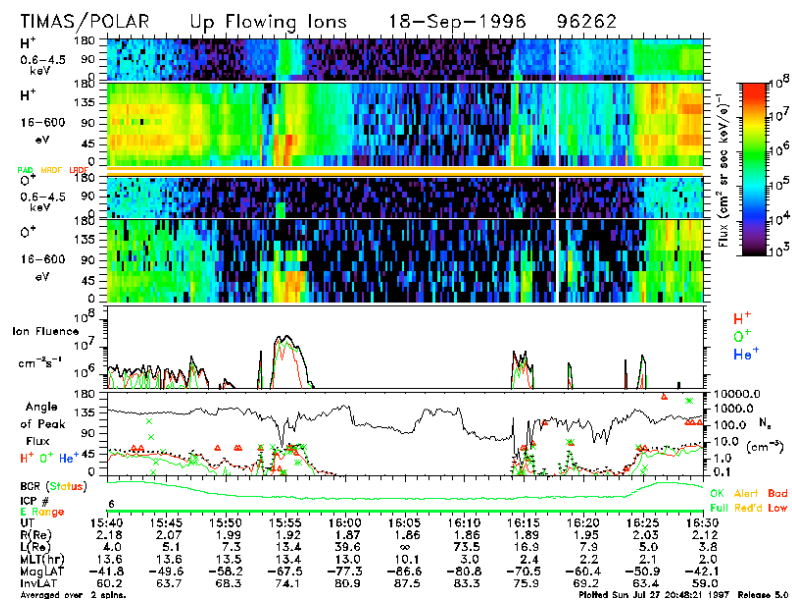Now available at http://lasp.colorado.edu/timas/summary/1996/09/flux_survey_A_19960918.gif
Or generally at http://lasp.colorado.edu/timas/summary/yyyy/mm/flux_survey_A_yyyymmdd.gif

Apogee Centered Plots

Apogee centered plots now available from the list at http:/lasp.colorado.edu/timas/summary/yyyy/mm/   filenames have the format yyyymmdd_hhmm_hhmm_mrdf_e.gif and yyyymmdd_hhmm_hhmm_mrdf_p.gif

Perigee Centered Plots

Perigee centered plots are available from the lists at
http://lasp.colorado.edu/timas/summary/yyyy/mm/perigee/   They are
available from 1996 through 1998

On line generation of ASCII files and Spectrograms: Inputs

MRDF Web, Version 1.02

Please see MRDF Web Documentation for information on output files and TIMAS Plot Summaries for data gaps.

Questions and/or comments may be directed to Bill Peterson.

Estimated Wait Time: ~6 minutes

Time Range

Date: 1996 / 3 / 16

Time: 0 : 00

Delta Time: 1 . 0 Hours

Parameters

Spins Averaged: 8

Units: FLUX

PA Coor. System: Payload

Layout

Flux Color Bar Minimum: 1 . 0 E 3

Flux Color Bar Maximum: 1 . 0 E 7

Pitch Angle Plot Type: PA

Your Information

You will receive an email with pickup information when your request has been processed.
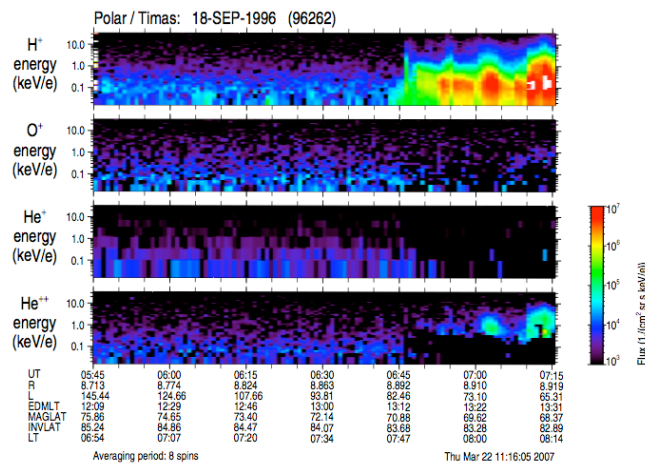
Name:

Email:

Email: (again)

- All TIMAS LZ data available at CU

- Coordinates: Payload, GSE, GSM, and Field-aligned coordinates

- Units: Counts, count/rate, flux, energy flux, and velocity space density

- Normal and 3-D pitch angles

- Time selection, time resolution, and color bar specification.

– **Available now at: http://lasp.colorado.edu/timas/mrdf/**

On line generation of ASCII files and Spectrograms: Outputs
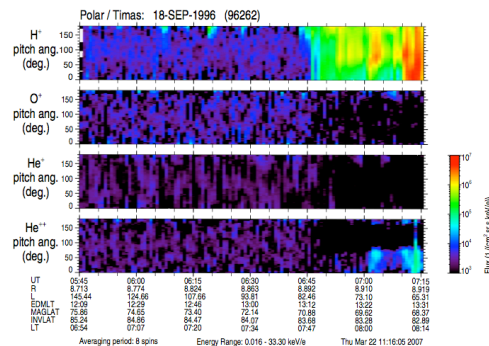

Energy-Time Spectrogram

ASCII files of H^+, O^+, and He^{++} with estimated precision of the values reported

Angle-Time Spectrogram

ASCII file of H^+, O^+, He^+ and He^{++} densities

ASCII file of H^+ velocity moment in selected coordinate system with estimated precision of the values reported

Not available after 1998: The algorithm we use to calculate velocity moments is not valid for data acquired after 12/18/1998

New web data interface

- Top page will have an index to data:
  - The format is not fixed. It could be a calendar with thumbnails of the new daily flux summary plot or a slide wire time line showing Dst, Kp, and $F_{10.7}$ It will point to a daily 24h flux summary plot
- The page displaying the full size 24 hour spectrogram and have pointers to

  - **Apogee and perigee centered data plots**
  - Plot format descriptions
  - The on-line high resolution generation page
  - CDAWeb
  - SSCWeb
  - The Polar Project and PI data sites
  - Etc.

STATUS:
TIMAS Archiving Plan

- 24h summary spectrograms to be made more user friendly.
  - **Completed and in production**
- Apogee and Perigee Centered Data plots
  - **Completed and in production**
- On line unattended generation of high resolution spectrograms and ASCII files in a variety of coordinate systems.
  - **Completed and available**
- New web data interface
  - **In progress. Completion expected in CY 2007**.